



# MAJOR TRANSPORTATION & REGIONAL COOPERATION COMMITTEE

February 2, 2016

# RECENT DEVELOPMENTS

- Civil construction punch list work and testing continues
- Integrated testing and training activities:
  - Overhead Contact System (OCS) training
  - Traction Power Substation (TPSS) Training
  - Passenger Information Display Sign (PIDS) testing
  - Vehicle Lifting Jack training
  - Forklift Training
- Remaining vehicle production continues at CAF Elmira, NY plant
  - Unit #3 - resolving open issues prior to shipment
  - Unit #4 - undergoing final inspections
  - Unit #5 - in production
- Safety & Security Readiness Review (SSRR) held Jan 12-14



# BUDGET VS. EXPENSES

Through 1/31/16 - DRAFT

BUDGET - June 2013		EXPENSES 1/31/2016		
Budget Category	Base + Allocated Contingency	Expended	Encumbered	Expended + Encumb.
Pre-Development	\$ 1,313,786.00	\$ 1,264,628.13	\$ 49,157.87	\$ 1,313,786.00
Design	\$ 14,598,719.00	\$ 14,313,044.86	\$ 19,571.85	\$ 14,332,616.71
Real Estate	\$ 2,010,143.00	\$ 2,011,186.00	\$ -	\$ 2,011,186.00
Construction	\$ 52,511,908.33			
MOF	\$ 11,914,668.98			
Utilities (Project)	\$ 6,958,405.62	\$ 66,678,375.73	\$ 4,706,607.20	\$ 71,384,982.93
Utilities (3rd Party)	\$ 6,225,065.37	\$ 2,574,494.38	\$ 3,092,363.76	\$ 5,666,858.14
Vehicles	\$ 25,213,095.40	\$ 10,727,444.87	\$ 13,224,475.63	\$ 23,951,920.50
Fare Vending	\$ 550,000.00	\$ -	\$ -	\$ -
City Project Administration	\$ 4,441,476.27	\$ 3,493,053.35	\$ -	\$ 3,493,053.35
SORTA Project Administration	\$ 2,100,000.00	\$ 1,139,564.10	\$ 860,435.90	\$ 2,000,000.00
Start-up	\$ 250,000.00	\$ -	\$ -	\$ -
Unallocated Contingency	\$ 4,991,010.00	\$ 3,507,046.64	\$ 1,189,077.99	\$ 4,696,124.63
<b>Subtotal</b>	<b>\$ 133,078,277.97</b>	<b>\$ 105,708,838.06</b>	<b>\$ 23,141,690.20</b>	<b>\$ 128,850,528.26</b>
Utilities (Duke Escrow)	\$ 15,000,000.00	\$ 15,000,000.00	\$ -	\$ 15,000,000.00
<b>Grand Total</b>	<b>\$ 148,078,277.97</b>	<b>\$ 120,708,838.06</b>	<b>\$ 23,141,690.20</b>	<b>\$ 143,850,528.26</b>

\* Construction Expenditures include \$2.938 Million in unreleased retainage on MPD contract .  
Vehicle Expenditures include \$410,344 in unreleased retainage on CAF contract

# CONTINGENCY USAGE

Through 1/22/16

Budget Category	Contingency Budget	Completed Contingency Uses	Pending Contingency Uses	Estimated Contingency Uses	Contingency Remaining
<b>ALLOCATED CONTINGENCY</b>					
Pre-Development	\$ -	\$ -			\$ -
Design	\$ 202,370.96	\$ -			\$ 202,370.96
Real Estate	\$ -	\$ -			\$ -
Construction					
MOF	\$ 2,000,000.00	\$ 1,515,500.32	\$ 169,083.20	\$ -	\$ 315,416.48
Utilities (Project)					
Utilities (3rd Party)	\$ 77,207.23	\$ -			\$ 77,207.23
Vehicles	\$ 2,101,722.40	\$ 977,100.75			\$ 1,124,621.65
Fare Vending	\$ 50,000.00	\$ -			\$ 50,000.00
City Project Administration	\$ 190,800.63	\$ -	\$ 190,800.63		\$ -
SORTA Project Administration	\$ 100,000.00	\$ -			\$ 100,000.00
Start-up	\$ -	\$ -			\$ -
<b>Subtotal</b>	<b>\$ 4,722,101.22</b>	<b>\$ 2,492,601.07</b>	<b>\$ 359,883.83</b>	<b>\$ -</b>	<b>\$ 1,869,616.32</b>
<b>UNALLOCATED CONTINGENCY</b>					
Unallocated Contingency		\$ 1,385,418.50		\$ 223,538.00	
Construction	\$ 4,991,010.00	\$ 2,029,170.11		\$ 801,368.00	\$ (989,301.64)
City Project Administration			\$ 931,868.72		
Design		\$ 608,948.31			
<b>Subtotal</b>	<b>\$ 4,991,010.00</b>	<b>\$ 4,023,536.92</b>	<b>\$ 931,868.72</b>	<b>\$ 1,024,906.00</b>	<b>\$ (989,301.64)</b>
Utilities (Duke Escrow)	\$ -				\$ -
<b>Grand Total</b>	<b>\$ 9,713,111.22</b>	<b>\$ 6,516,137.99</b>	<b>\$ 1,291,752.55</b>	<b>\$ 1,024,906.00</b>	<b>\$ 880,314.68</b>

# GRANT DRAWDOWN SUMMARY

Through 1/31/16

SOURCE	GRANT NUMBER	ALI CODE	Description	FEDERAL SHARE			
				Authorized	Drawn	Pending	Amount Remaining
Urban Circulator	OH-03-0303	12.79.00	City Project Admin.	\$ 1,453	\$ 1,453	\$ -	\$ -
		12.79.00	SORTA Project Admin.	\$ 1,388,545	\$ 877,126		\$ 511,419
		12.23.03	Construction	\$ 12,598,000	\$ 12,371,830		\$ 226,170
		12.13.20	Vehicles	\$ 11,002,000	\$ 7,606,846		\$ 3,395,154
Subtotal				\$ 24,989,998	\$ 20,857,255	\$ -	\$ 4,132,743
CMAQ	OH 95-X054	12.23.03	Construction	\$ 4,000,000	\$ 4,000,000		\$ -
Subtotal				\$ 4,000,000	\$ 4,000,000	\$ -	\$ -
Rail ROW Grant	OH-90-X265	13.73.00	Contingency	\$ 268,278	\$ 268,278		
Subtotal				\$ 268,278	\$ 268,278	\$ -	\$ -
TIGER 3	OH 79-0002	12.79.00	City Project Admin.	\$ 154,545	\$ 154,545	\$ -	\$ (0)
		12.79.00	SORTA Project Admin	\$ 211,453	\$ 34,434		\$ 177,019
		12.23.03	Construction	\$ 15,554,000	\$ 15,554,000		\$ (0)
Subtotal				\$ 15,919,998	\$ 15,742,980	\$ -	\$ 177,018
TOTAL				\$ 45,178,274	\$ 40,868,513	\$ -	\$ 4,309,761

\* Budget revision on 9/16/15 moved \$4.998 M from Urban Circulator ALI 12.13.20 to 12.23.03

\*\* Drawn + Pending = 85.4% of Federal grant funds



# VEHICLES

- Integrated testing and training activities continue
  - Additional on-street vehicle testing expected to resume in next few weeks
  - 500 km burn in testing
  - Transdev maintenance staff arriving, training
- Remaining vehicle production continues at CAF Elmira, NY plant:
  - Streetcars 1177 (Unit #3) awaiting repair work to close open item prior to shipment
  - Streetcar 1178 (Unit #4) undergoing final inspections, expected in next few weeks
  - Streetcar 1179 (Unit #5) expected to arrive in March

# START UP – TRAFFIC ENFORCEMENT

- Enforcement tools needed to keep track clear of obstructions that could impair streetcar service or cause safety hazards
- Ordinance drafted:
  - Clarify parking restrictions proximate to streetcar tracks
  - Enable enforcement officers to clear offenders quickly
- Additional Ordinances to provide tools for SORTA/Streetcar operations staff to enforce fare and operational rules
- Passage of these Ordinances by City Council will help acclimate public to streetcar operating environment in advance of revenue service.



# START UP - TRACK ACCESS PERMITTING

- TAP permit process transitioning from MPD to SORTA/Transdev
- Contractors, others working in ROW required to get a TAP permit as part of their normal ROW permit from City DOTE
  - Allows streetcar operations to know who/what to expect in the street
  - Streetcar operations is then able to coordinate work with utilities, contractors
- OSHA rules require workers to observe a 10 foot safety envelope around active OCS wire
- Transdev will offer safety training/certification to workers





# RISK/CONTINGENCY ITEMS

- CONSTRUCTION
  - Traffic signal modifications may be needed to facilitate signal operation
  - MOF Modifications – align facility to operational needs
  - Additional capital equipment needs identified as part of start up (some budget exists for this)
- VEHICLES
  - CAF delays may require additional engineering support from LTK
  - Spare parts & special tools delivery, training still required
- SAFETY & SECURITY CERTIFICATION/INTEGRATED TESTING
  - Issues identified during integrated testing and safety certification may require redesign or additional construction work



# UC DAAP ECONOMIC ANALYSIS CLASS



Warming up after gathering data on the route



Back in class, reviewing data sources and uses





PLANNING & OPERATIONS UPDATE

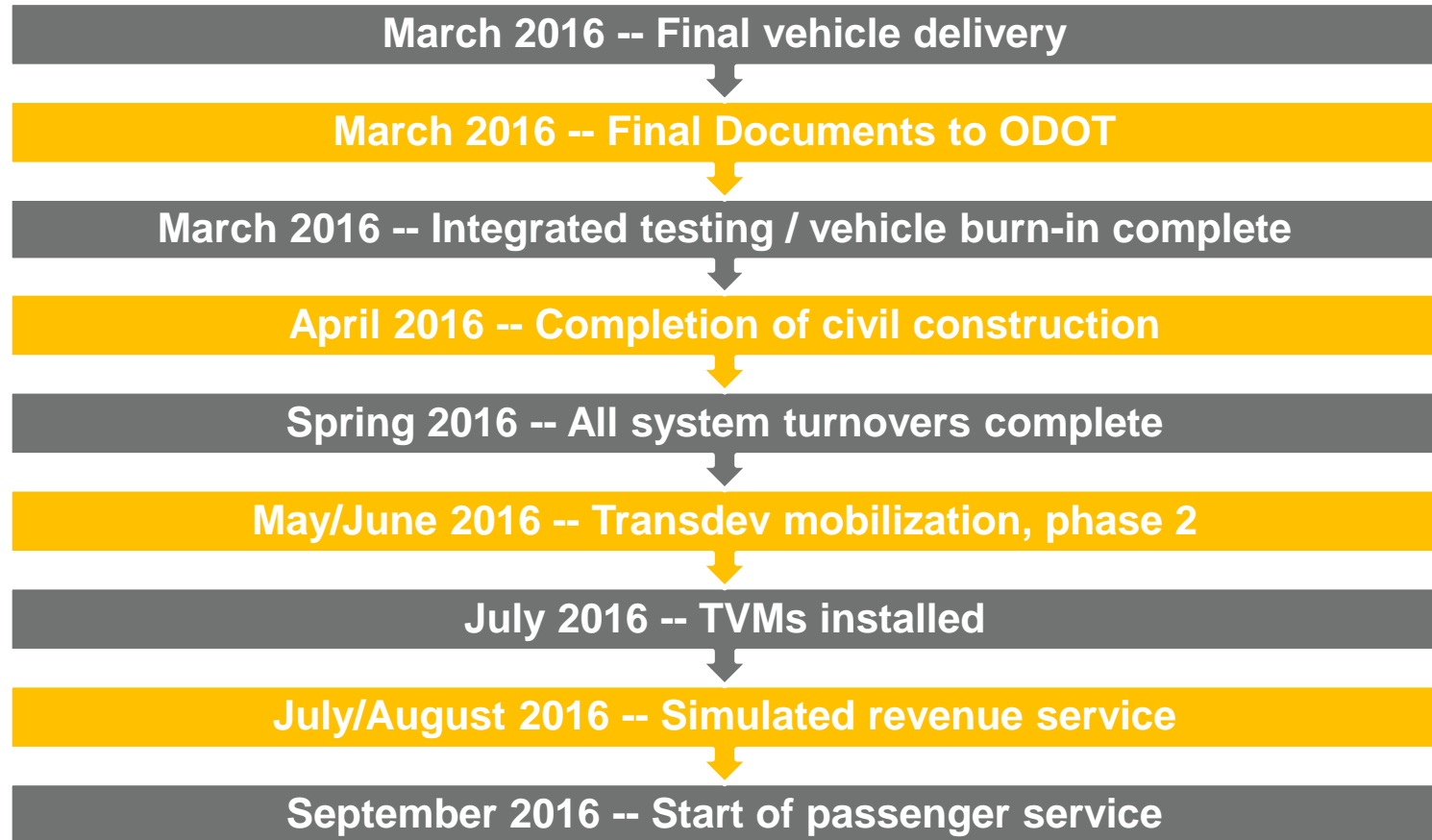


# OPERATIONS & MAINTENANCE UPDATE

FEBRUARY 2016



# KEY SCHEDULE MILESTONES



# SAFETY AND SECURITY

- **Safety/Security Certification:**
  - SSRC meeting weekly
  - FLSSC meeting bi-weekly
  - SSRR Feedback
    - Updates to required documents
      - System Safety Program Plan\*
      - Security and Emergency Preparedness Plan\*
      - Emergency Operations Plan\*
      - Accident/Incident Investigation Procedure
    - Changes to Rail Activation Plan

*\* Documentation required 6 months prior to start of revenue service. (Currently on target)*





# SAFETY AND SECURITY

- System Safety Director completed Security Training. Currently receiving Rail Accident Investigation Training
- Forklift Training provided to streetcar personnel by System Safety Director. Will be providing additional training (CPR/First-Aid and Scissor Lift)
- TVA in progress. Stations are next to be assessed
- Hazard Log and SOIL are updated as items are closed
- Operational Hazard Analysis now in progress



# TRACK ACCESS

- Track access is a critical function to maintain safety along the streetcar track and energized overhead contact system (OCS) and manage access
- Per ordinance, as a condition of a right-of-way or building permit along the streetcar line, permit applicants must also obtain a track access permit from SORTA
- SORTA took over Feb. 1, 2016; subcontracted to Transdev





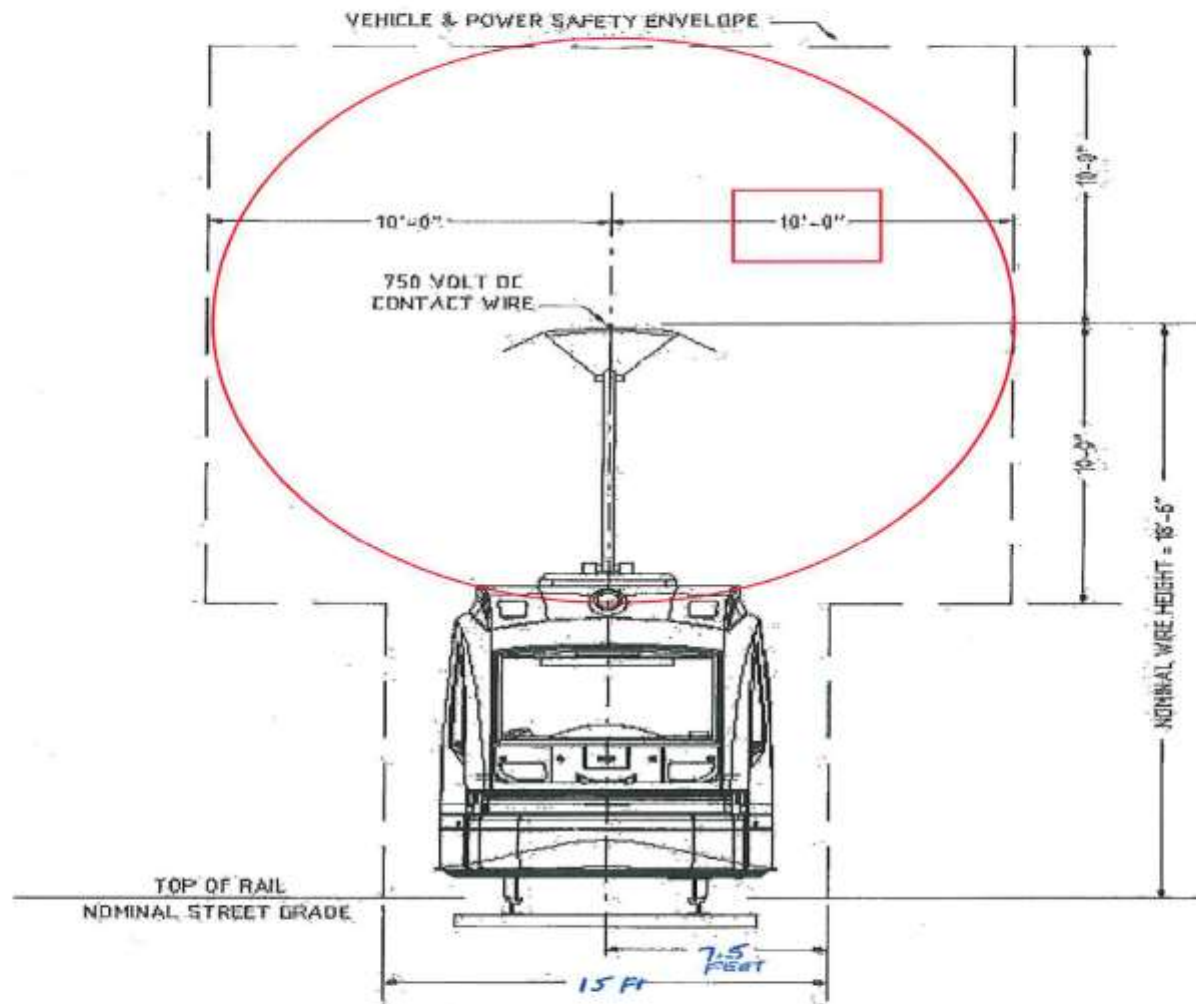


Figure 2: OCS Wire Danger Zone 10' Diameter

# TRACK ACCESS

- Minimum one person on a permitted work crew must be trained on streetcar safety
- SORTA/Transdev to provide annual credentials for trained individuals
- Training class is free; approximately 2 hours
  - Train safety
  - OCS safety
  - Communication protocols with SORTA/Transdev



# TRANSDEV MOBILIZATION

- Hires:
  - Working Foreman – Maintenance of Way/Facilities
  - Transportation Supervisors
  - Vehicle Maintenance Technicians
- Upcoming hires:
  - Transportation Supervisors
  - Vehicle Maintenance Technicians
- Rulebook and SOP updates ongoing



# STREETCAR OPERATIONS AND MAINTENANCE BUDGET PROCESS

- §3.3 of the OMIGA requires SORTA to submit Operating & Maintenance funding request to the City
- January 4, 2016 letter from SORTA requested available City revenue sources to finalize budget by February 1, 2016
- SORTA would like to submit first O&M funding request at February 17, 2016 Major Transportation & Regional Cooperation Committee



# STREETCAR OPERATIONS AND MAINTENANCE BUDGET PROCESS

- Unless revenue projections change, SORTA will use fare policy and services levels previously presented
- SORTA to provide projections:
  - Fare revenue (based on City ridership/elasticity projections and SORTA fare policy)
  - Advertising/naming rights revenue (based on contractor projections)
  - FTA formula funding (not anticipated for year 1)



# STREETCAR OPERATIONS AND MAINTENANCE BUDGET PROCESS

- Expense projections have not substantially changed since June 2015 presentation
- Four expense categories:
  - Transdev contract (fixed price, fixed scope)
  - Direct costs (traction power, fare media, IT costs, SORTA systems maintenance, marketing, etc.)
  - 8% SORTA overhead (fixed / SORTA staff costs)
  - City overhead
- OMIGA requires SORTA to present expenses by City fiscal year (June 30 / July 1)



# STREETCAR OPERATIONS AND MAINTENANCE BUDGET PROCESS

- Budget assumptions and risks
  - Schedule
    - Vehicle deliveries, training, spare parts and special tools
    - September 15, 2015 revenue service date
    - Safety/Security certification
  - FTA approval of revised operating hours
  - Transdev contract changes
    - Revised operating hours
    - IGA Amendment 7
  - Turnover schedule
  - Utilities (traction power, TPSS communications)





# QUESTIONS

